

Title (en)

Neural network solder paste inspection system

Title (de)

Lötpasteninspektionssystem mit neuronalem Netzwerk

Title (fr)

Système d'inspection de pâte à souder avec réseau neuronal

Publication

**EP 0744699 A1 19961127 (EN)**

Application

**EP 96303583 A 19960521**

Priority

US 44728295 A 19950522

Abstract (en)

A solder paste brick inspection and physical quality scoring system 10 employs a neural network 70 trained with a fuzzified output vector. An image of solder paste bricks 64 on a printed circuit board 12 is acquired by a CCD camera 30. Values of a predetermined set of brick metrics are extracted from the image by a computer 28 and used as a crisp input vector to trained neural network 70. A defuzzifier 76 converts a fuzzy output vector from neural network 70 into a crisp quality score output which can be used for monitoring and process control. <IMAGE>

IPC 1-7

**G06F 15/80**

IPC 8 full level

**G06F 15/18** (2006.01); **G05B 13/02** (2006.01); **G06N 3/00** (2006.01); **G06N 3/04** (2006.01); **H05K 3/34** (2006.01)

CPC (source: EP US)

**G06N 3/043** (2023.01 - EP US); **Y10S 706/912** (2013.01 - US)

Citation (search report)

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